

STCG SUBCON SUBGROUP MEETING MINUTES

March 26, 1997

Redox Manipulation Test Plan Status (John Fruchter and Arlene Tortoso)

An overview of the In Situ Redox Manipulation Technology Test Plan was provided. The schedule for testing the technology in the 100-D Area is as follows:

- Submit Test Plan.....March 28, FY-97
- Test Plan Reviewed.....April 28, FY-97
- Test Plan Approved.....May 19, FY-97
- Phase 1 Drilling.....May, FY-97
- Phase 2 Drilling.....June/July, FY-97
- Inject Dithionite.....September, FY-97
- Phase 3 Drilling.....November, FY-98
- Complete Dithionite Injection.....June/July, FY-98
- Coreholes.....September, FY-98
- Complete Post-Emplacement Characterization.....June, FY-99
- Complete Treatability Test Report.....September, FY-99

Several Subgroup members wanted to know the source of the chromium in the groundwater. John stated that the source is unknown for sure, but is felt to be either the chromate transfer basins near the reactors or the process sewer. Someone asked whether the nearby solid waste burial ground could be the source. The concern was whether the barrier would be put in the right place to intercept the chromium plume. The answer was that this is a small-scale test; the barrier is not designed to intercept the entire plume. The angle of the barrier will be adjusted based on the observed direction of the groundwater flow.

Two additional questions were raised:

1. How will the technology be monitored after the two-year project ends?
2. Are current high water levels in the Columbia River going to adversely impact the test?

Dennis Faulk asked whether the Subgroup should comment on all test plans as a standard procedure, focusing only on the technology issues. Perhaps a Subgroup member should be assigned to review each test plan and report back to the full Subgroup. It was agreed that Subgroup consensus recommendations carry a lot more weight than any individual's comments.

John Fruchter will send out advance copies of the test plan on March 28. Comments are due to Fred Serier by April 11. Fred will compile the comments and send them to the full Subgroup by April 18. They will be discussed at the next Subgroup meeting on April 23.

Potential TDI Proposals (Kim Koegler and Greg Mitchem)

EM-50 has set aside \$50 million for the Technology Deployment Initiative (TDI) in FY98. Three proposal concepts were presented to the Subgroup: 1) Engineered Surface Barrier, 2) In Situ Redox Manipulation, and 3) In Situ Treatment Zone. The presentations included descriptions of the problems being addressed, the potential technology to be deployed for each problem, its advantages over the baseline, and the proposed schedule and cost.

Greg Mitchem presented the Engineered Surface Barrier proposal concept. It includes permitting, barrier design and construction, deployment of barriers at two additional waste sites, and performance monitoring. Bob Cook asked why DOE doesn't just spend money on the performance assessment up front.

Kim Koegler presented In Situ Redox Manipulation and In Situ Treatment Zone. Bob Cook and Paul Danielson were opposed to the In Situ Treatment Zone proposal.

Technology Needs Status (Mike Schlender)

Mike Schlender presented a status update on the technology needs identified by the Subgroup last November and December. His role is to identify technology integration opportunities, evaluate technologies, and prepare preproposals for Subgroup review. So far, more than 150 technologies have been identified for FY97, 39 technology evaluations have been completed, and 10 technologies have been retained for further cost and performance evaluation. Many technology alternatives have been found to be too expensive and cannot compete with the baseline technology.

Bob Cook and Paul Danielson asked why the Subgroup members could not see the technology assessments done by BHI and PNNL. Kim Koegler responded that the specific calculations may contain proprietary data that cannot be disclosed.

Next Meeting

The next Subcon Subgroup meeting will be held on April 23, 1997 at 9:00 a.m. in Room 1B-40 of the Bechtel Building. Our goal is to have the detailed agenda distributed by April 10. Suggested agenda items include:

- Review of TDI Proposals (Kim Koegler)
- Freeze Barriers (Mike Schlender)

Action Items

- Send out advance copies of In Situ Redox Manipulation Treatability Test Plan to Subgroup members on March 28 (John Fruchter).
- Send comments to Fred Serier by April 11 (Subgroup members).
- Compile comments and send to Subgroup members by April 18 (Fred Serier).

Attendees

Gary Ballew (Pacific Rim Enterprise Center)

Bob Cook (Yakama Indian Nation)

Paul Danielson (Nez Perce Tribe)

Linda Fassbender (PNNL)

Dennis Faulk (EPA)

John Fruchter (PNNL)

Dib Goswami (Ecology)

Kim Koegler (BHI)

Greg Mitchem (BHI)

Mike Schlender (PNNL)

Fred Serier (DOE)

Arlene Tortoso (DOE)

Donna Wanek (DOE)